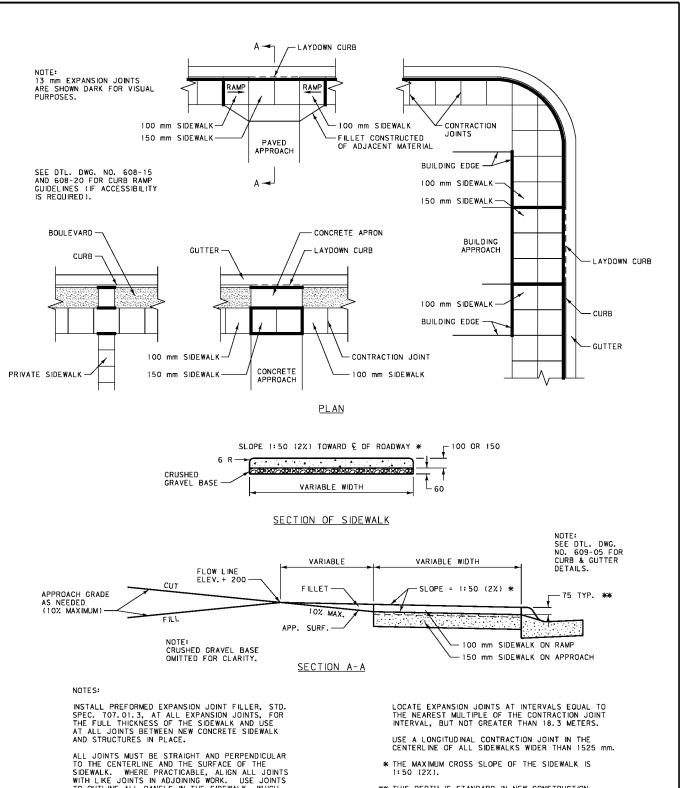
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ALL JOINTS MUST BE STRAIGHT AND PERPENDICULAR TO THE CENTERLINE AND THE SURFACE OF THE SIDEWALK. WHERE PRACTICABLE, ALIGN ALL JOINTS WITH LIKE JOINTS IN ADJOINING WORK. USE JOINTS TO OUTLINE ALL PANELS IN THE SIDEWALK, WHICH ARE TO BE, SO FAR AS POSSIBLE, SQUARE. THE LENGTHS OF THE PANELS ARE DETERMINED BY THE WIDTH OF THE SIDEWALK.

WHERE RIGHT-OF-WAY PERMITS, NEW SIDEWALKS LESS THAN 1525 mm IN WIDTH MUST HAVE A PASSING AREA AT A MAXIMUM SPACING OF 61 m. THE PASSING AREA IS A MINIMUM OF 1525 mm BY 1525 mm IN

CONTRACTION JOINTS MAY NOT BE MORE THAN 3 mm WIDE AND NOT LESS THAN 25 mm IN DEPTH AND MAY BE CUT BY A GROOVE FORMING TOOL.

*** THIS DEPTH IS STANDARD IN NEW CONSTRUCTION. ALTERATIONS TO EXISTING FACILITIES MAY RESULT IN A LARGER DEPTH, WHICH WILL REQUIRE A GREATER RAMP LENGTH.

| DETAILED | DRAWING |
|--|----------|
| REFERENCE | DWG. NO. |
| REFERENCE STANDARD SPEC. SECTION 608 | 608-05 |
| | |

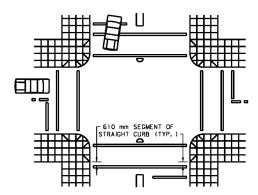
CONCRETE SIDEWALK

ALL DIMENSIONS ARE MILLIMETERS (mm) UNLESS OTHERWISE NOTED.

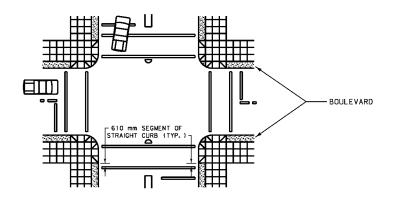
EFFECTIVE: AUGUST 1999



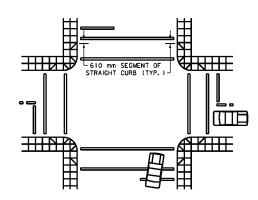
CURB RAMPS AT MARKED CROSSINGS ILLUSTRATED WITH OPTION A (SEE NOTE 1)



TYPICAL URBAN SITE - WIDE SIDEWALKS WITH MEDIAN ISLANDS DEPRESSED.

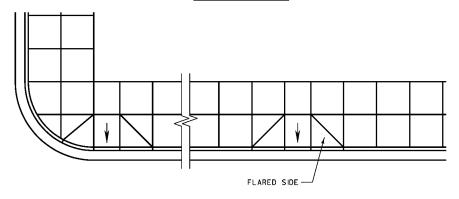


TYPICAL URBAN SITE - WIDE SIDEWALKS WITH MEDIAN ISLANDS DEPRESSED (INCLUDES BOULEVARD AREA)



TYPICAL RESIDENTIAL SITE - NARROWER SIDEWALKS (MAY INCLUDE BOULEVARD - NOT SHOWN)

CURB RAMP TYPES

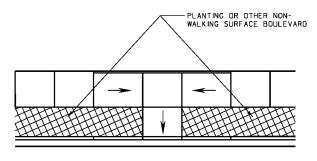


(A)

PERPENDICULAR PUBLIC SIDEWALK CURB RAMP (SEE DETAILED DRAWING NUMBER 608-25 FOR ADDITIONAL DETAILS)



PARALLEL PUBLIC SIDEWALK CURB RAMP (SEE DETAILED DRAWING NUMBER 608-30 FOR ADDITIONAL DETAILS)



(C)

COMBINED (PARALLEL/PERPENDICULAR) PUBLIC SIDEWALK CURB RAMP (SEE DETAILED DRAWING NUMBERS 608-25 AND 608-30 FOR ADDITIONAL DETAILS)

GENERAL NOTES:

- IN NEW CONSTRUCTION, USE PUBLIC SIDEWALK CURB RAMPS IN THE FOLLOWING ORDER OF PREFERENCE:
 - PERPENDICULAR PUBLIC SIDEWALK CURB RAMP PARALLEL PUBLIC SIDEWALK CURB RAMP COMBINED (PARALLEL/PERPENDICULAR) PUBLIC SIDEWALK CURB RAMP

 - D. DIAGONAL PUBLIC SIDEWALK CURB RAMP.

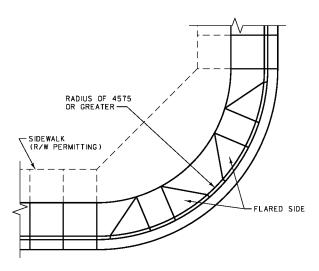
SINGLE DIAGONAL OR DEPRESSED CORNER PUBLIC SIDEWALK CURB RAMPS SERVING TWO STREET CROSSING DIRECTIONS ARE NOT PERMITTED IN NEW CONSTRUCTION.

- 2. WHEN ALTERING EXISTING FACILITIES, MEET NEW CONSTRUCTION REQUIREMENTS FOR PUBLIC SIDEWALK CURB RAMPS TO THE MAXIMUM EXTENT FEASIBLE.
- 3. IF POSSIBLE, DO NOT PLACE DRAINAGE STRUCTURES IN CONFLICT WITH PUBLIC SIDEWALK CURB RAMPS. LOCATION OF CURB RAMPS TAKES PRECEDENCE OVER LOCATION OF DRAINAGE STRUCTURES EXCEPT WHERE EXISTING DRAINAGE STRUCTURES ARE BEING UTILIZED.
- 4. USE THE FLATTEST SLOPES POSSIBLE FOR ALL CURB RAMPS. MAXIMUM SLOPES ARE SHOWN FOR GUIDANCE AT DIFFICULT SITES.
- 5. FINAL FIELD LOCATION OF THE CURB RAMPS WILL BE DETERMINED BY THE ENGINEER.
- 6. FOR ADDITIONAL INFORMATION CONSULT:

APPENDIX IV
AMERICANS WITH DISABILITIES ACT (ADA)
ACCESSIBLITY GUIDELINES FOR BUILDINGS AND FACILITIES
AUGUST 1994 EDITION

CONSTRUCTION REQUIREMENTS:

- OBTAIN A SURFACE TEXTURE ON THE RAMP BY COARSE BROOMING, TRANSVERSE TO THE RAMP SLOPE.
- TAKE CARE DURING CONSTRUCTION TO ASSURE UNIFORM RAMP GRADES, FREE OF SAGS AND SHARP GRADE CHANGES.



(D)

DIAGONAL PUBLIC SIDEWALK CURB RAMP (SEE DETAILED DRAWING NUMBER 608-35 FOR ADDITIONAL DETAILS)

ALL DIMENSIONS ARE MILLIMETERS (mm) UNLESS OTHERWISE NOTED.

REFERENCE STANDARD SPEC. DWG. NO. 608-15 SECTION 608

> NEW CONSTRUCTION PUBLIC SIDEWALK CURB RAMPS

EFFECTIVE: AUGUST 1999

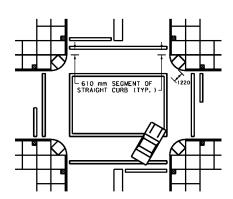




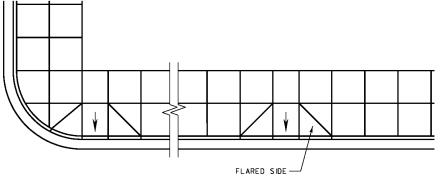
CURB RAMPS AT MARKED INTERSECTIONS

ILLUSTRATED WITH OPTION E (SEE NOTE 1)

FOLLOW NEW CONSTRUCTION GUIDELINES ON DETAILED DRAWING NUMBER 608-15 UNLESS EXISTING OBSTRUCTIONS CAUSE USE OF THE DIAGONAL PUBLIC SIDEWALK CURB RAMP.

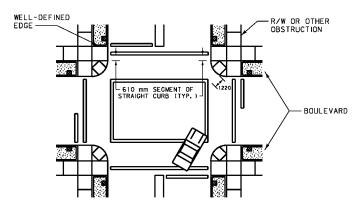


TYPICAL URBAN SITE - EXISTING OBSTRUCTIONS PREVENT USE OF OTHER CURB RAMP TYPES

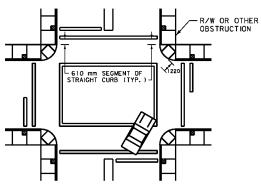


PERPENDICULAR PUBLIC SIDEWALK CURB RAMP (SEE DETAILED DRAWING NUMBER 608-25 FOR

(A)



TYPICAL SITE - EXISTING RIGHT-OF-WAY OR OTHER OBSTRUCTIONS PREVENT USE OF OTHER CURB RAMP TYPES (SHOWN WITH BOULEVARD)

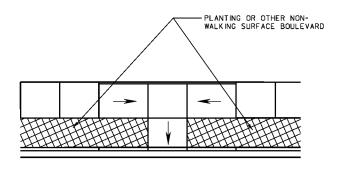


TYPICAL SITE - EXISTING RIGHT-OF-WAY OR OTHER OBSTRUCTIONS PREVENT USE OF OTHER CURB RAMP TYPES



(B)

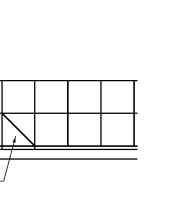
PARALLEL PUBLIC SIDEWALK CURB RAMP (SEE DETAILED DRAWING NUMBER 608-30 FOR ADDITIONAL DETAILS)



(C)

COMBINED (PARALLEL/PERPENDICULAR) PUBLIC SIDEWALK CURB RAMP (SEE DETAILED DRAWING NUMBERS 608-25 AND 608-30 FOR ADDITIONAL DETAILS)

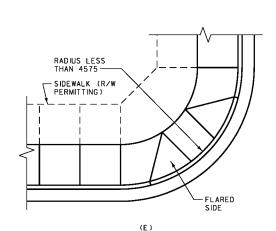
CURB RAMP TYPES



DIAGONAL PUBLIC SIDEWALK CURB RAMP (SEE DETAILED DRAWING NUMBER 608-35 FOR ADDITIONAL DETAILS)

RADIUS OF 4575 OR GREATER

SIDEWALK (R/W PERMITTING)



SINGLE DIAGONAL PUBLIC SIDEWALK CURB RAMP (SEE DETAILED DRAWING NUMBER 608-35 FOR ADDITIONAL DETAILS)

GENERAL NOTES:

1. WHEN ALTERING EXISTING FACILITIES, USE PUBLIC SIDEWALK CURB RAMPS IN THE FOLLOWING ORDER OF PREFERENCE:

LARED SIDE

CURB RAMP TYPES

- PERPENDICULAR PUBLIC SIDEWALK CURB RAMP PARALLEL PUBLIC SIDEWALK CURB RAMP COMBINED (PARALLEL/PERPENDICULAR) PUBLIC SIDWALK CURB RAMP DIAGONAL PUBLIC SIDEWALK CURB RAMP SINGLE DIAGONAL PUBLIC SIDEWALK CURB RAMP

NOTE: USE DIAGONAL PUBLIC SIDEWALK CURB RAMPS AS THE LAST OPTION AND CONSTRUCT TO COMPLY WITH ALL ADA SLOPE AND CONSTRUCTION CRITERIA TO THE GREATEST EXTENT POSSIBLE.

- PLACE CURB RAMPS TO AVOID EXISTING DRAINAGE STRUCTURES AND OTHER OBSTRUCTIONS TO THE GREATEST EXTENT POSSIBLE.
- USE THE FLATTEST SLOPES POSSIBLE FOR ALL CURB RAMPS. MAXIMUM SLOPES ARE SHOWN FOR GUIDANCE AT DIFFICULT SITES AND SHOULD BE AVOIDED IF POSSIBLE.
- 4. FINAL FIELD LOCATION OF THE CURB RAMPS WILL BE DETERMINED BY THE ENGINEER.
- 5. FOR ADDITIONAL INFORMATION CONSULT:

AMERICANS WITH DISABILITIES ACT (ADA)
ACCESSIBILITY GUIDELINES FOR BUILDINGS AND FACILITIES
AUGUST, 1994 EDITION

CONSTRUCTION REQUIREMENTS:

- OBTAIN A SURFACE TEXTURE ON THE RAMP BY COARSE BROOMING, TRANSVERSE
- TAKE CARE DURING CONSTRUCTION TO ASSURE UNIFORM RAMP GRADES, FREE OF SAGS AND SHARP GRADE CHANGES.

REFERENCE STANDARD SPEC. DWG. NO. 608-20 SECTION 608

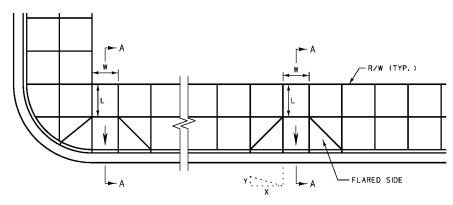
ALTERATIONS TO EXISTING FACILITIES - PUBLIC SIDEWALK CURB RAMPS

EFFECTIVE: AUGUST 1999

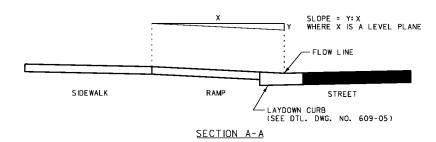


■ - OBSTRUCTION

ALL DIMENSIONS ARE MILLIMETERS (mm) UNLESS OTHERWISE NOTED.



PERPENDICULAR PUBLIC SIDEWALK CURB RAMP



NEW CONSTRUCTION REQUIREMENTS:

- 1. THE DESIRABLE WIDTH OF THE CURB RAMP (DIMENSION "W" ABOVE) IS 1220 mm OR WIDER. THE MINIMUM WIDTH (W) IS 915 mm.
- THE DESIRABLE LENGTH OF THE LANDING AT THE TOP OF THE CURB RAMP (DIMENSION "L" ABOVE) IS 1525 mm OR THE LENGTH OF THE RAMP. THE MINIMUM LENGTH "L" IS 1220 mm.
- 3. THE DESIRABLE SLOPE FOR THE CURB RAMP IS 1:20 OR FLATTER. THE MAXIMUM CURB RAMP SLOPE IS 1:12.
- 4. THE DESIRABLE SLOPE FOR THE FLARED SIDE OF THE CURB RAMP IS 1:12 OR FLATTER. THE MAXIMUM FLARED
- 5. THE MAXIMUM CROSS SLOPE OF THE SIDEWALK IS 1:50 (2%).
- 6. THE SURFACE OF THE PERPENDICULAR PUBLIC SIDEWALK CURB RAMP IS TO CONTRAST VISUALLY WITH THE ADJOINING PUBLIC SIDEWALK SURFACES. THIS CAN BE OBTAINED BY USE OF COLORED CONCRETE, PATTERNING THE CONCRETE SURFACE OR OTHER APPROVED METHODS.

REQUIREMENTS FOR ALTERATIONS TO EXISTING FACILITIES:

NOTE: WHEREVER POSSIBLE, ALTER EXISTING FACILITIES TO COMPLY WITH THE NEW CONSTRUCTION REQUIREMENTS.

- THE MINIMUM WIDTH OF THE CURB RAMP (DIMENSION "W" ABOVE) IS 915 mm.
 NOTE: WHERE THE PUBLIC PEDESTRIAN RIGHT-OF-WAY WIDTH IS LESS THAN 915 mm, PROVIDE A PARALLEL PUBLIC SIDEWALK CURB RAMP.
- WHERE PUBLIC PEDESTRIAN RIGHT-OF-WAY WIDTH IS INSUFFICIENT TO ACCOMMODATE A TOP LANDING OF 1220 mm, PROVIDE A TOP LANDING OF 915 mm.
- 3. THE MAXIMUM CURB RAMP SLOPE IS 1:10, PROVIDED THE RISE (DIMENSION "Y" ABOVE) IS 150 mm OR LESS. A 1:12 OR FLATTER SLOPE IS DESIRABLE.
- 4. THE MAXIMUM FLARED SIDE SLOPE IS 1: 10.
- 5. THE MAXIMUM CROSS SLOPE OF THE SIDEWALK IS 1:50 (2%).
- 6. THE SURFACE OF THE PERPENDICULAR PUBLIC SIDEWALK CURB RAMP IS TO CONTRAST VISUALLY WITH THE ADJOINING PUBLIC SIDEWALK SURFACES. THIS CAN BE OBTAINED BY USE OF COLORED CONCRETE, PATTERNING THE CONCRETE SURFACE OR OTHER APPROVED METHODS.
- 7. WHERE EXISTING SITE DEVELOPMENT CONDITIONS PROHIBIT THE STRICT AND FULL COMPLIANCE OF ALL ADA CRITERIA, PROVIDE ACCESSIBILITY TO THE MAXIMUM EXTENT FEASIBLE.

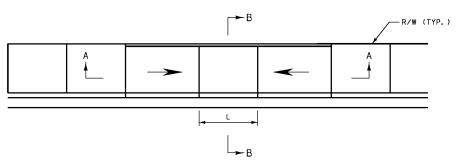
COMBINED (PARALLEL/PERPENDICULAR) PUBLIC SIDEWALK CURB RAMPS ARE TO MEET THE CRITERIA FOR BOTH THE PARALLEL AND PERPENDICULAR PUBLIC SIDEWALK CURB RAMPS. (SEE DETAILED DRAWING NUMBER 608-30 AND THIS DRAWING.)

DETAILED DRAWING REFERENCE DWG. NO. STANDARD SPEC. 608-25 SECTION 608

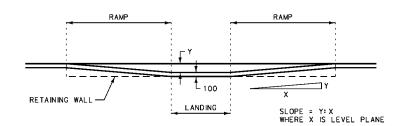
> **PERPENDICUL AR** PUBLIC SIDEWALK CURB RAMPS

EFFECTIVE: AUGUST 1999

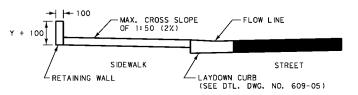




PARALLEL PUBLIC SIDEWALK CURB RAMP



SECTION A-A



SECTION B-B

NEW CONSTRUCTION REQUIREMENTS:

- 1. THE MINIMUM LENGTH OF THE LANDING (DIMENSION "L" ABOVE) IS 1525 mm.
- 2. THE DESIRABLE SLOPE FOR THE CURB RAMPS IS 1:20 OR FLATTER. THE MAXIMUM CURB RAMP SLOPE IS 1:12.
- 3. THE MAXIMUM CROSS SLOPE OF THE SIDEWALK OR LANDING IS 1:50 (2%).
- 4. THE SURFACE OF THE LANDING IS TO CONTRAST VISUALLY WITH ADJOINING PUBLIC SIDEWALK SURFACES. THIS CAN BE OBTAINED BY USE OF COLORED CONCRETE, PATTERNING THE CONCRETE SURFACE OR OTHER APPROVED

REQUIREMENTS FOR ALTERATIONS TO EXISTING FACILITIES:

NOTE: WHEREVER POSSIBLE, ALTER EXISTING FACILITIES TO COMPLY WITH THE NEW CONSTRUCTION REQUIREMENTS.

- THE DESIRABLE LENGTH OF THE LANDING (DIMENSION "L" ABOVE) IS 1525 mm. THE MINIMUM LANDING LENGTH IS 1220 mm.
- 2. THE MAXIMUM CURB RAMP SLOPE IS 1:10, PROVIDED THE RISE (DIMENSION "Y" ABOVE) IS 150 mm OR LESS. A 1:12 OR FLATTER SLOPE IS DESIRABLE.
- 3. THE MAXIMUM CROSS SLOPE OF THE SIDEWALK AND LANDING IS 1:50 (2%) SLOPE.
- 4. THE SURFACE OF THE LANDING IS TO CONTRAST VISUALLY WITH THE ADJOINING PUBLIC SIDEWALK SURFACES. THIS CAN BE OBTAINED BY USE OF COLORED CONCRETE, PATTERNING THE CONCRETE SURFACE OR OTHER
- 5. WHERE EXISTING SITE DEVELOPMENT CONDITIONS PROHIBIT THE STRICT AND FULL COMPLIANCE OF ALL ADA CRITERIA, PROVIDE ACCESSIBILITY TO THE MAXIMUM EXTENT FEASIBLE.

THE COST OF THE RETAINING WALL IS INCLUDED IN THE UNIT PRICE BID FOR CONCRETE SIDEWALK.

COMBINED (PARALLEL/PERPENDICULAR) PUBLIC SIDEWALK CURB RAMPS ARE TO MEET THE CRITERIA FOR BOTH THE PARALLEL AND PERPENDICULAR PUBLIC SIDEWALK CURB RAMPS. (SEE DETAILED DRAWING NO. 608-25 AND THIS DRAWING)

ALL DIMENSIONS ARE MILLIMETERS (mm) UNLESS OTHERWISE NOTED.

DETAILED DRAWING REFERENCE STANDARD SPEC. 608-30 SECTION 608

> PARALLEL PUBLIC SIDEWALK CURB RAMPS

EFFECTIVE: AUGUST 1999



